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Connecting. Converting. Leading!

### Dual Port Modbus RTU/ASCII to Modbus TCP Converter, Model SC10MK2 485



Modbus is an industry adopted communication protocol based on RTU, ASCII, and TCP protocols for various applications. These three protocols are commonly used by various applications in the industry such as DCS, PLC, HMI, Power meters, Solar, various Sensor and Measuring instruments. SC10MK2 has 2 RS485 ports and converts between Modbus RTU/ASCII and Modbus TCP protocols. Users can easily integrate Modbus TCP and Modbus Serial devices. Configuration is by Web browser.

CPU : 32-bits ARM-Cortex-M4 CPU, 120 MHz  
RAM : 256 K Bytes SDRAM  
ROM : 1M Bytes Flash ROM

#### Ethernet Port \* 1

Port Type : RJ45 Connector, 10 /100 M bps ( Auto Detecting )  
Protocol : ARP, IP, ICMP, UDP, TCP, HTTP, DHCP, Modbus ASCII, Modbus RTU  
Mode : TCP Server / TCP Client / UDP  
Setup : HTTP Browser Setup (IE & Netscape)  
Security : Login Password  
Protection : Built-in 1.5KV Magnetic Isolation

**Note : Modbus TCP Master : In the TCP Settings, the Port number needs to be different e.g 502 & 503**

#### Serial Port \* 2 ports

Port-1 : RS485, RS422, 4 Pin screw type connectors  
Port-2 : RS422, RS485, 7 pin screw type connectors.  
RS-422 : Rx+ , Rx- , Tx+ , Tx- ( Surge Protected )  
RS-485 : Data+ , Data- ( Surge Protected )  
Protection : 600W Surge Protection, Over current protection, 15KV ESD for all signals  
Speed : 300 bps to 230.4Kbps  
Parity : None, Odd, Even, Mark, Space  
Data Bit : 5, 6, 7, 8  
Stop Bit : 1, 2

#### Watch Dog Function

Built in RS422/RS485 Pull Up/Down Resistor for both ports

Configuration Utility : Support Win-8, Win-7, Vista, Win-XP, Win-2003 server, Win-10

MTBF : > 100,000 hours

LED Indication : SYS ( PWR ),Port1, Port2, LAN, ACK

#### Power

Power : 24 V DC. 120mA @ 12V DC. Screw type Terminal block  
: 230V AC External Adapter. 9 to 30V DC

Power Consumption : 2W

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#### **Environment**

Operating Temperature : -10°C to 70°C  
Storage Temperature : -20°C to +85°C  
Humidity : 10 to 95%rh Non Condensing

#### **Mechanical**

Dimensions : 90 \* 60 \* 25 mm (W \* D \* H)  
Weight : 100 gm  
Mounting : DIN Rail & Panel mounting

#### **Model Code Sélection : SC10MK2 485 24**

SC10MK2 485 : Base Model for Dual Port Modbus RTU/ASCII to Modbus  
TCP Converter  
24 : 24V DC Operated

**Note : Adapter is not included as a standard supply**